

IRIDIUM

GLOBAL SERVICES



IRIDIUM

by Motorola

MOTOROLA

08: CONTRACT HAS BEEN
APPROVED. THE NEXT
MEETING IS WEDNESDAY
MORNING.

ONE WORLD,



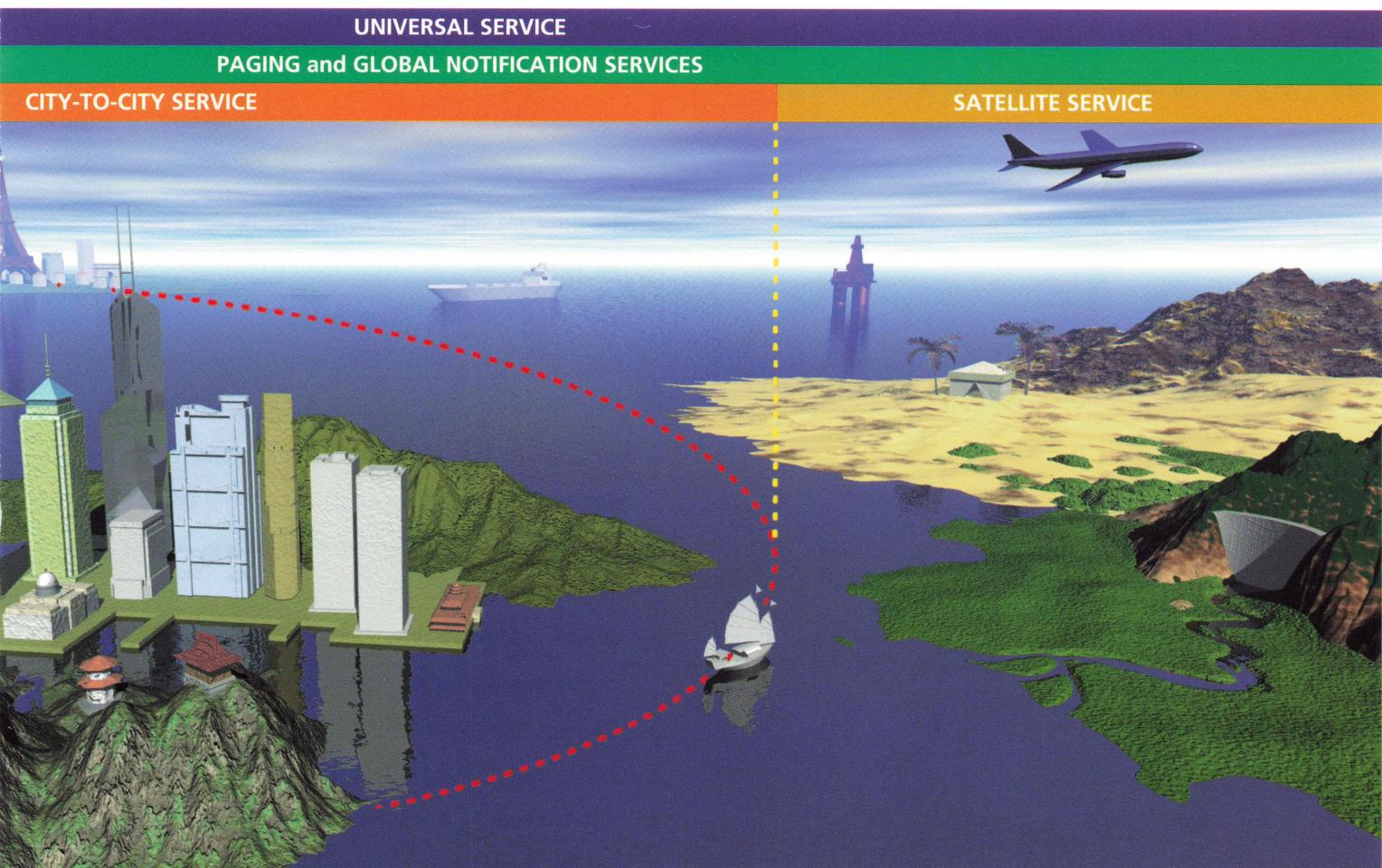
Beginning in late 1998, wireless subscribers will have access to communications anywhere and everywhere on the planet.

Wireless telephones will send and receive digital communications signals, and belt-worn pagers will receive alpha and numeric messages sent from virtually any telephone in the world. All without wires and all without prior knowledge of the location of the user being called.

Subscribers to IRIDIUM services will enjoy unprecedented wireless communications access.

From remote and unserved areas of the world, to cities densely populated and booming with commerce, IRIDIUM services will help to meet the communications requirements of demanding customers.

ONE NUMBER



The following IRIDIUM services are designed to provide customers with wireless communications solutions to best meet their varied communications needs.

IRIDIUM Universal Service Combining the global coverage of satellites with the localized coverage of terrestrial wireless services, IRIDIUM Universal Service will provide unprecedented wireless accessibility to handheld telephones worldwide. A network of 66 satellites will circle the globe to offer subscribers worldwide service availability. When subscribers are within the coverage area of terrestrial wireless networks, their calls will be transmitted via those ground-based infrastructures. Multi-mode IRIDIUM telephones, capable of switching among wireless infrastructure standards, will support both satellite and ground-based wireless telephony. Subscribers will use one telephone with one number, and will receive a single monthly invoice from their service provider.

IRIDIUM Satellite Service Individuals who require communications primarily outside of terrestrial network coverage will subscribe to IRIDIUM Satellite Service. Available worldwide, this capability will provide a direct satellite link for both incoming and outgoing communications. A single telephone, and a single telephone number, will provide global accessibility for subscribers who frequent remote, unserved, or poor-coverage regions.

IRIDIUM City-to-City Service Subscribers who travel frequently to cities covered by wireless communications networks, previously incompatible due to differing technical protocols, will be prime candidates for IRIDIUM City-to-City Service. This IRIDIUM service will enable subscribers to roam onto incompatible wireless networks while maintaining a single telephone number. Subscribers will utilize either multi-mode wireless telephones, or a combination of wireless handsets for each protocol visited, to access local networks. Subscriber registration will occur when the telephone is powered-on. Customers will receive a single monthly invoice from their service provider.

IRIDIUM Paging and Global Notification Services IRIDIUM Paging and IRIDIUM Global Notification Services will be optional services available with any of the primary IRIDIUM voice service offerings. IRIDIUM Paging may be obtained on a stand-alone basis. IRIDIUM Paging Services will provide subscribers with global reach and alpha or numeric messaging capability to high-signal-strength belt-worn pagers. Global Notification Services will integrate voice and messaging capability by prompting calling parties to leave either voice-mail or numeric messages when calling an inactive IRIDIUM telephone so the subscriber always gets the message.

MOTOROLA

TELEPHONE



The IRIDIUM Telephone by Motorola

The IRIDIUM telephone manufactured by Motorola can be used as a satellite phone or as a terrestrial wireless phone. The multi-mode phone includes terrestrial radio cassettes. Depending on which terrestrial wireless technology is locally available, the appropriate terrestrial radio cassette will be inserted into a compartment of the IRIDIUM phone. These cassettes will simplify the transition between terrestrial wireless technologies.

Terrestrial radio cassettes may be purchased at anytime, and are planned for the following terrestrial wireless standards: AMPS/N-AMPS; GSM; DCS 1800; PDC 800; CDMA 800; CDMA 1900; CDMA Japan; PCS 1900.

A SIM (subscriber identity module) card will provide basic IRIDIUM system access, personalized features, and enhanced security. The SIM card prevents the phone from being used without a valid card and proper PIN (personal identification number).

For fax or data communications, a port will accommodate connection to a personal computer. Accessories include a battery charger and travel case.

TELEPHONE FEATURES

- LITHIUM ION BATTERIES
- 2 HOURS CONTINUOUS TALK-TIME
- 24 HOURS STANDBY TIME
- FAST CHARGING TIME OF 2.5 HOURS
- WEIGHT: 453 G (16 OZ.) WITH RADIO CASSETTE
- VOLUME: 410 CC (25 CU. IN.)
- POWER: .645 WATTS AVERAGE

KYOCERA

TELEPHONE



The IRIDIUM Telephone by Kyocera

Manufactured by Kyocera, one of Japan's leading wireless phone manufacturers, the innovative Kyocera IRIDIUM phone will have two design configurations: single-mode for IRIDIUM satellite service only; and multi-mode for cellular and satellite service.

For users who require communications in remote locations or in areas without adequate telecommunications, the Kyocera single-mode IRIDIUM satellite phone provides satellite, voice, fax, and data services via the IRIDIUM system.

For users who require both terrestrial wireless and satellite communications, Kyocera has designed an IRIDIUM attachment unit. By inserting a matching Kyocera portable cellular phone in the IRIDIUM attachment, users will have access either to the IRIDIUM satellite network or to a terrestrial wireless network.

Within cellular coverage areas, users will use the Kyocera cellular (PDC, GSM, or CDMA) phone. Outside cellular coverage, the Kyocera cellular phone is used with the IRIDIUM attachment to provide communications over the IRIDIUM satellite network.



The IRIDIUM Pager by Motorola

This receive-only pager will provide world-wide messaging capability to subscribers traveling in areas with incompatible or unavailable terrestrial paging systems. When paired with an IRIDIUM telephone, the pager becomes a flexible and cost-effective global communications package.

Its distinctive design, ease of use, and unique features make the IRIDIUM pager an indispensable business tool. In addition to storing both alphanumeric and numeric messages, the IRIDIUM pager will feature a four line, 80-character Optimax™ holographic display with electroluminescent (EL) backlighting for easy reading. A single AA alkaline battery will provide approximately one month of service.

PAGER FEATURES

- FOUR LINE, 80 CHARACTER ALPHANUMERIC DISPLAY
- OPTIMAX™ HOLOGRAPHIC DISPLAY
- INTERNATIONAL CHARACTER SETS
- ELECTROLUMINESCENT BACKLIGHT
- EIGHT ADDRESS MEMORY
- PROGRAMMABLE PROMPTS
- REAL-TIME CLOCK
- DUAL TIME ZONE DISPLAY
- MESSAGE TIME/DATE STAMP
- MESSAGE SEQUENCE NUMBERING
- TRAVEL ALARM
- USER SELECTABLE ALERTS
- SILENT VIBRATION
- PHONE DIRECTORY
- BATTERY GAUGE
- ESTIMATED 30-DAY BATTERY LIFE (ONE AA ALKALINE BATTERY)
- HOLSTER WITH BELT CLIP

IRIDIUM SYSTEM FACTS

SPACE SEGMENT

SATELLITES	66
ORBITAL PLANES	6
ORBIT HEIGHT	780 kilometers (421.5 nautical miles)
INCLINATION OF ORBITAL PLANES	86.4 degrees
ORBITAL PERIOD	100 minutes, 28 seconds
SATELLITE WEIGHT	700 kilograms
SPOT BEAMS	48 per satellite
LINK MARGIN	16 decibels (average)
LIFETIME	5-8 years

FREQUENCY BANDS

TELEPHONE AND MESSAGING SERVICE LINKS	1616-1626.5 MHz, L-Band
INTERSATELLITE LINKS	23.18-23.38 GHz, Ka-Band
GROUND SEGMENT LINKS	
Downlinks	19.4-19.6 GHz, Ka-Band
Uplinks	29.1-29.3 GHz, Ka-Band

SWITCHING EQUIPMENT

SIEMENS GSM-D900

SIGNALING

GATEWAY TO INTERNATIONAL SWITCHING CENTER	PCM transmission and SS7-ISUP or MFCR2
IRIDIUM TELEPHONE	Frequency Division/Time Division (FDMA/TDMA); Quadrature Phase Shift Keying (QPSK)

TRANSMISSION RATES

DIGITAL VOICE, FAX, AND DATA	2.4 kilobits per second
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LAUNCH

BOEING SPACE SYSTEMS (DELTA II)	Five IRIDIUM satellites per launch
KHRUNICHEV (PROTON)	Seven IRIDIUM satellites per launch
CHINA GREAT WALL (LONG MARCH 2C)	Two IRIDIUM satellites per launch

IRIDIUM LLC INVESTORS

Iridium Africa Corporation

**IRIDIUM AFRICA
CORPORATION**

Iridium World Communications, Ltd.

(NASDAQ: IRIDF)

**IRIDIUM WORLD
COMMUNICATIONS, LTD.**

PT Barkrie Communications Corporation



Iridium Canada, Inc.

IRIDIUM CANADA, INC.

Iridium China Hong Kong Limited

**IRIDIUM CHINA
HONG KONG LIMITED**

Khrunichev State Research and
Production Space Center


**KHRUNICHEV STATE RESEARCH
AND PRODUCTION SPACE CENTER**

Pacific Electric Wire and Cable Co., Ltd.



Iridium India Telecom Limited

**IRIDIUM INDIA
TELECOM PRIVATE LIMITED**

Lockheed Martin Corporation



Raytheon Company

Raytheon

Iridium Italia S.p.A.

IRIDIUM ITALIA S.p.A.

Motorola, Inc.



SK Telecom

SK Telecom

Iridium Middle East Corporation

**IRIDIUM MIDDLE EAST
CORPORATION**

Nippon Iridium Corporation

NIPPON IRIDIUM CORPORATION

Sprint Corporation



Iridium SudAmerica Corporation

**IRIDIUM SUDAMERICA
CORPORATION**

o.tel.o communications GmbH



Thai Satellite Telecommunications Co., Ltd.



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